

Fig.1.

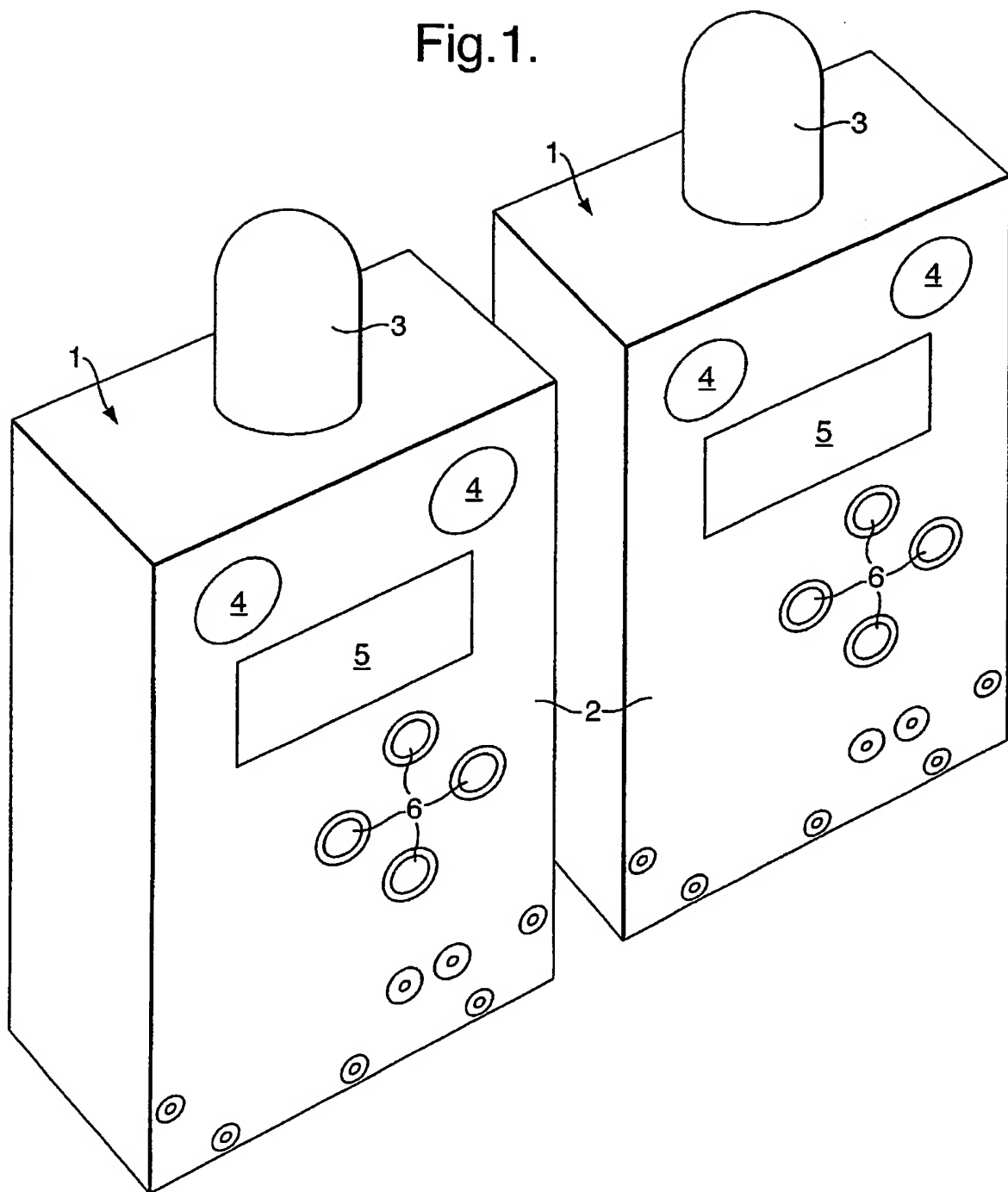


Fig.2.

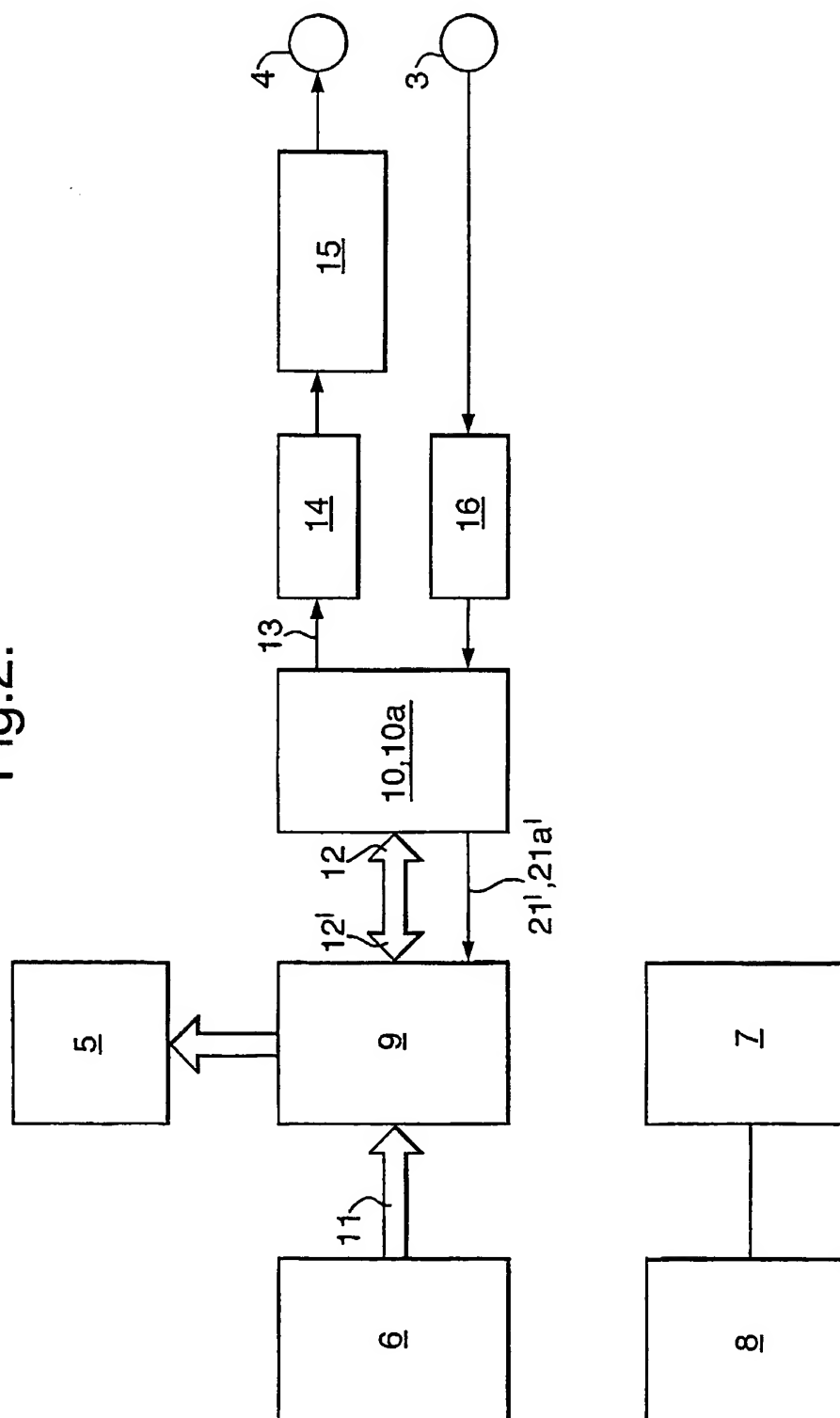


Fig.3.

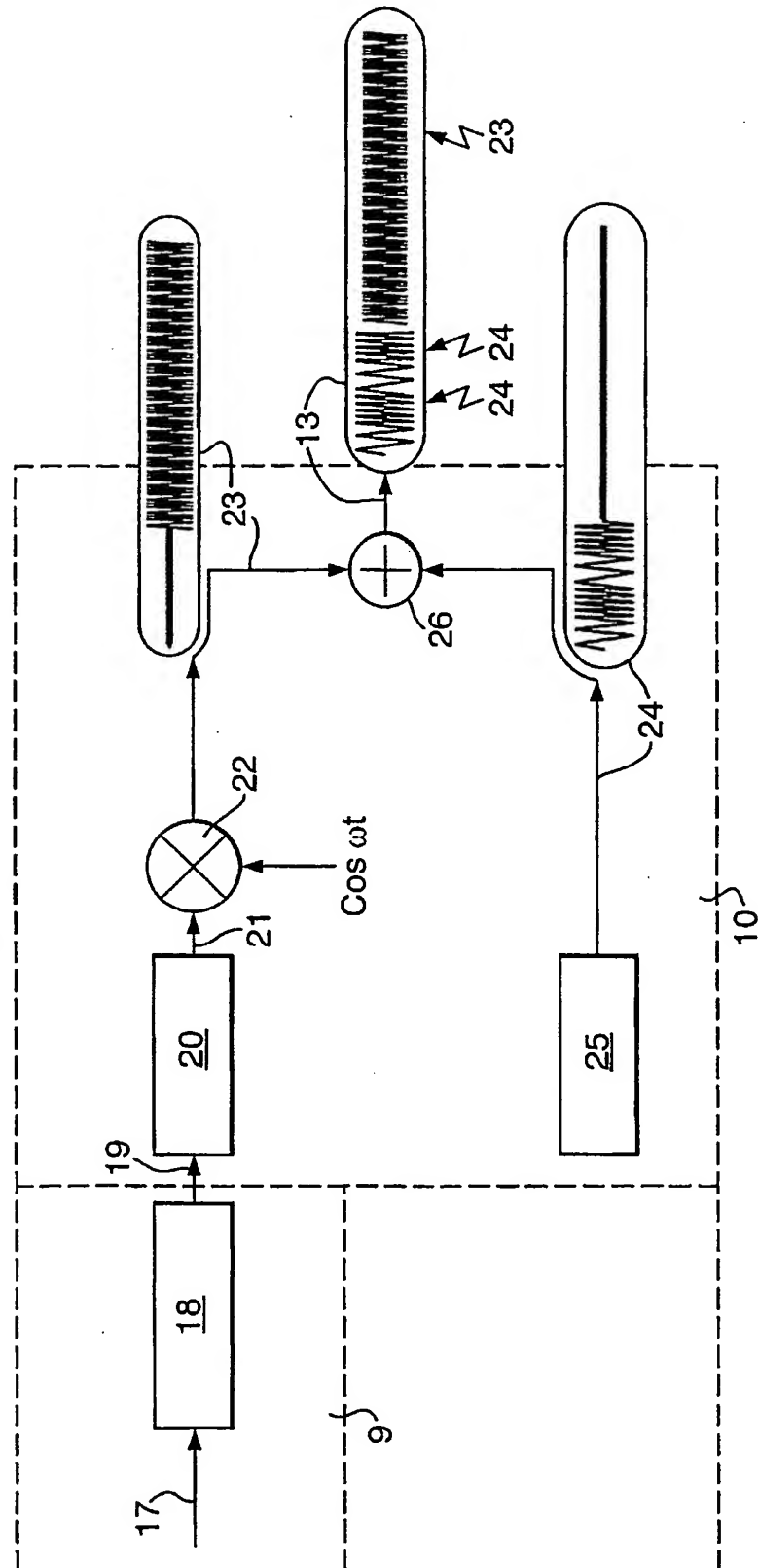
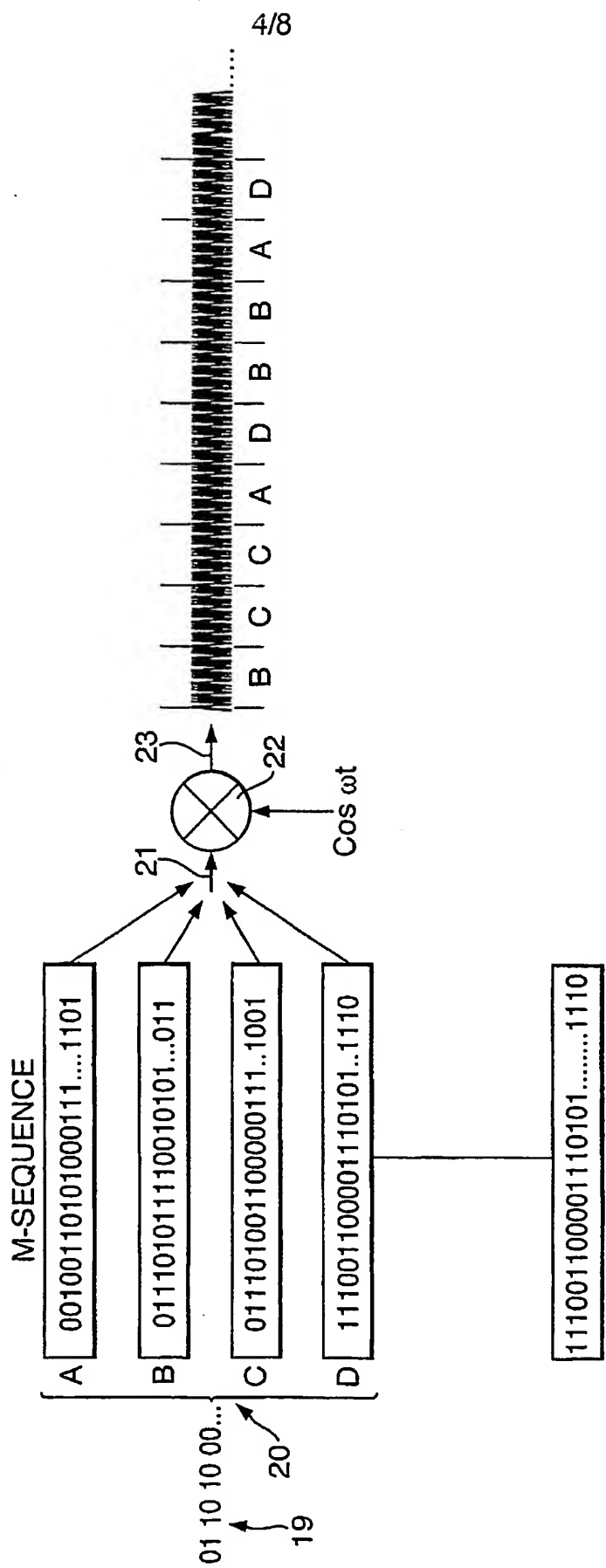


Fig.4.



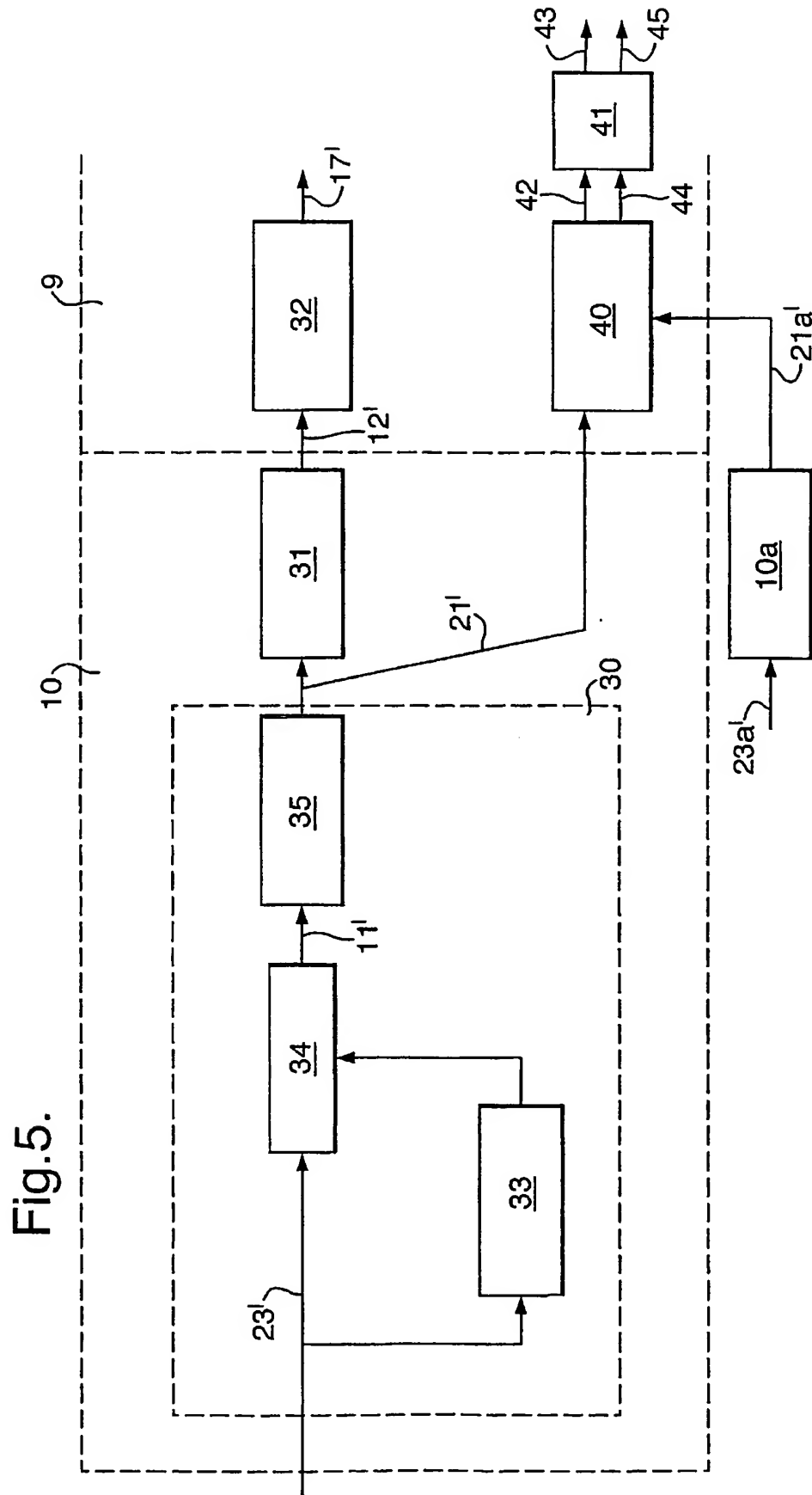


Fig.6.

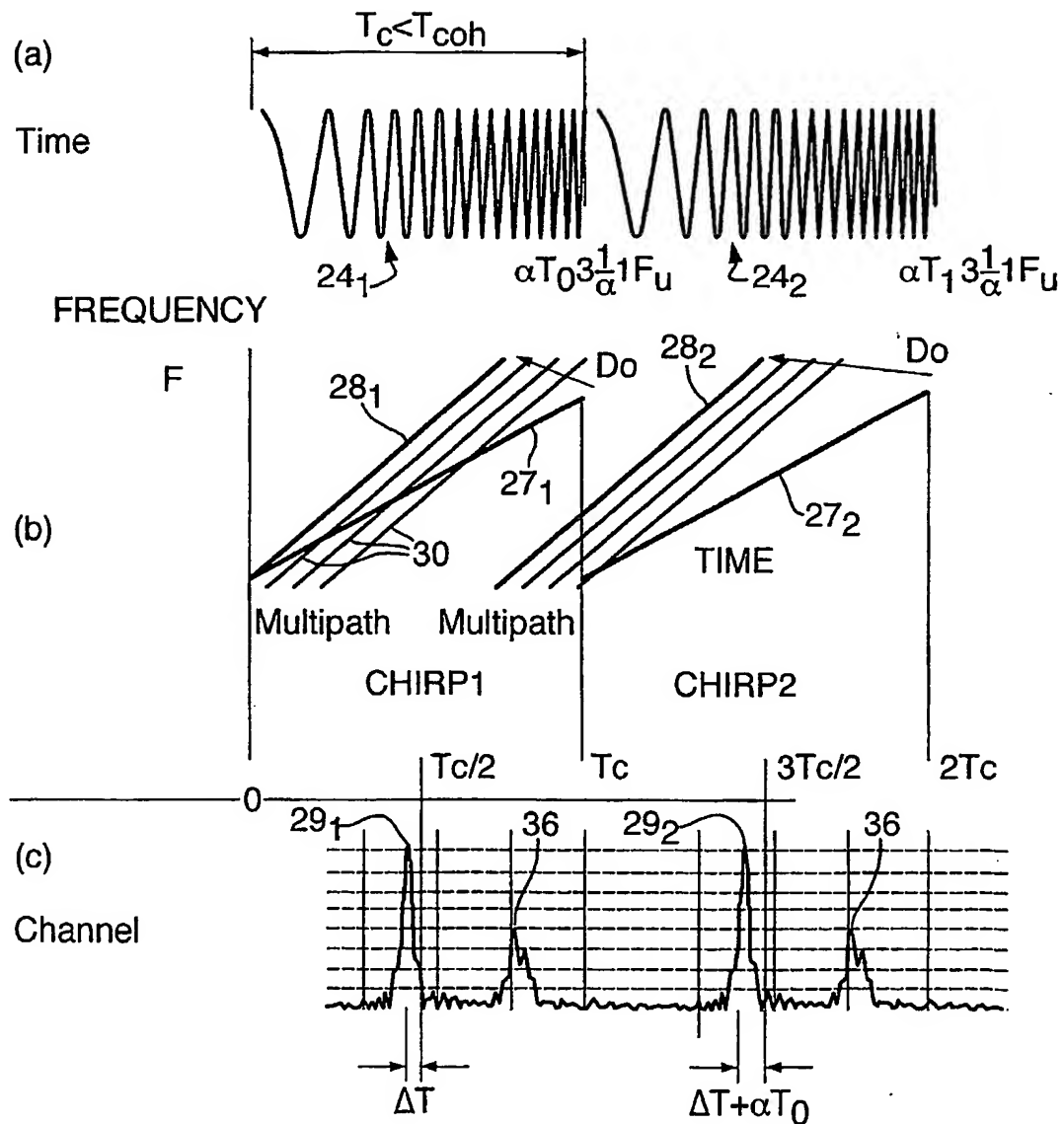
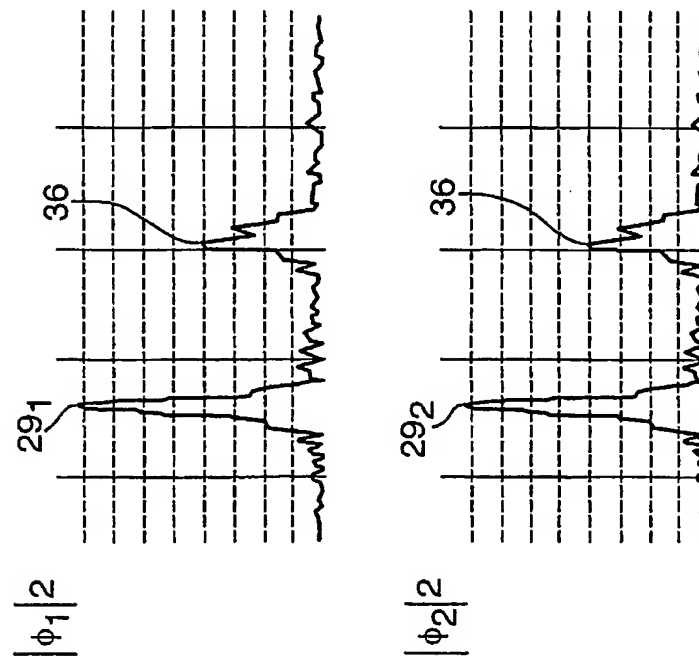


Fig.7.



$$\phi_i(k) = \sum_{n=0}^{N-1} \left[ \frac{1}{N} [R_i(n) X'(n)]^T \exp(-j2\pi k n / N) \right]$$

where

$$R_i(n) = \sum_{k=0}^{N-1} r_i(kT_s) \exp(-j2\pi n k / N)$$

$$X(n) = \sum_{k=0}^{N-1} x(kT_s) \exp(-j2\pi n k / N)$$

$$\begin{aligned} r_i(k) &= r(kT + iT) & k=0, 1, \dots, N-1 \\ &= 0 & k=N, N+1, \dots, 2N-1 \\ r(kT) &= 0 & k=0, 1, \dots, N-1 \\ &= x(kT) & k=N, N+1, \dots, 2N-1 \end{aligned}$$

Fig.8. Threshold and Perform Complex Correlation

